Item #120516



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# Solar Net Metering Regional Utilities Committee 4-17-2013

### In review...

- Policies developed to lead the market
- Programs implemented successfully
- As designed, markets are changing
- Recommend adjusting programs to reduce subsidization and relieve upward rate pressure







### Considerations in advising adjustments

- Upward rate pressures
- Solar costs have been coming down
- Some customers oversizing net metered systems, putting more costs/rate pressure on other customers
- As retail rates increase, net metering costs increase putting additional pressure on rates
- Solar FIT cumulative rate pressure, although at declining cost to the utility





## Recommendation

Due to upward rate pressure, the decrease in the cost of solar, and the success of solar in the community:

 Net metering paid at retail fuel adjustment for excess generation monthly





## RUC request of staff (2-19-13)

- Come back with a specific "avoided cost rate" recommendation, including an analysis of how this change might affect deployment
- Compare what we do and our recommendation with what other utilities do
- Analyze the GEAC proposal
- Staff to schedule a presentation from the County on an update of the PACE program





## **Comparing approaches**

- 1. Customers without PV
- 2. GRU Current Net Metering Practice of paying fixed retail credit amount
  - Res: \$0.064 + Retail Fuel Adjustment
  - GSN: \$0.081 + Retail Fuel Adjustment
- 3. GRU pay Retail Fuel Adjustment Rate for Excess Energy
  - Res: Retail Fuel Adjustment
  - GSN: Retail Fuel Adjustment
- 4. GRU Current Practice plus \$0.05 adder for all PV production (GEAC proposal)





### Net metering

- Helps reduce the amount of energy customers purchase from GRU (sales, tax, surcharge avoided)
- Customers who maximize the energy efficiency of their home or business can benefit from the use of solar



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## Quantifying the costs and benefits

- Net metering customers benefit from avoiding full retail rates (including distribution and transmission), surcharges, sales taxes and utility taxes
- Net metering customers benefit from selling energy to the utility (can't include in planning)
- Net metering customers benefit from energy delivered when they can't produce themselves
- All other customers pay for the benefits net metering customers receive





	No generation cap.	No Residential Limit.	Energy credits roll over	No customer payment for excess	Customer pays fixed
Tallahassee			monthly.	credits. Transferred to department.	charges every month.
	No generation cap.	No Residential Limit.	No true-up mechanism.	Customers paid retail rate monthly.	Customer pays fixed
				Additional program available with	charges every month
				\$0.05 paid on top of retail rate for	that can be cancelled
Orlando			1	approved customers	by over-generation.
	Generation cap at		No true-up mechanism.	Customers paid retail rate monthly.	Customer pays fixed
	90% of customer's				charges every month
	load.				that can be cancelled
Jacksonville					by over-generation.
	Generation cap at	Residential limit: 10	Energy credits roll over	Avoided Cost paid to customer at	Customer pays fixed
Florida PSC	90% of customer's	KW.	monthly.	year's end for unused credits	charges every month.
	load.				
	No generation cap.	Residential limit: 25	Energy credits roll over	No customer payment for excess	Customer pays fixed
Portland PSC		KW.	monthly.	credits. Transferred to low-income	charges every month.
				housing.	
	No generation cap.	Residential limit: 10	Energy credits roll over	Avoided Cost paid to customer at	Customer pays fixed
Homestead, Florida		KW.	monthly.	year's end for unused credits	charges every month.
	System-wide	Residential Limit:	Energy credits roll over	No customer payment for excess	Customer pays fixed
Seattle, Washington	generation cap at	100 KW.	monthly.	credits. Transferred to department.	charges every month.
	20MW.				
	Implied generation	Residential limit: 25	Energy credits roll over	No customer payment for excess	Customer pays fixed
Cheney, Washington	cap of customer's	KW.	monthly.	credits. Transferred to department.	charges every month.
	load.				
	No generation cap.	No Residential Limit.	No true-up mechanism.	Customers paid retail rate plus fuel	Customer pays fixed
GRU Current				adjustment monthly.	charges every month
Gilo current					that can be cancelled
					by over-generation.
	No generation cap.	No Residential Limit.	No energy credit	Excess energy paid out monthly at	Customer pays fixed
	Policy to be		monthly rollover.	retail fuel adjustment.	charges that can be
GRU Proposed	determined.		Excess energy paid out		cancelled by monthly
			monthly at retail fuel		excess generation
			adjustment.		pay out.



#### Solar Net Metering Saturation among Florida Electric Utilities



### **Net Metering Illustration – GRU**



















### What does pricing change accomplish

- Incentivizes customers to size systems properly
- Results in solar installation and reduced consumption in the facility
- Reduces subsidization by other customers
- Mitigates rate pressure
- Allows utility to pay a competitive rate for energy





#### **Projected GRU Installed Solar Growth - Net Metering**

Figures represent projection of GRU Net Metering Programs after 2013



## Why we should be different

- No other market in Florida has more saturation
- Higher retail rates, combined with lower installation costs provide greater ROI for owner





#### Solar Net Metering Saturation among Florida Electric Utilities



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### Future budget items

Due to upward rate pressure, the decrease in the cost of solar, and the success of solar in the community:

- Eliminate the residential solar PV rebate
- Consider adjustments to the Solar FIT for example, lower the yearly cap of 4 MW (#120516)



